

SEQUENCE LISTING

<110> Reinherz, Ellis L. Freund, Christian Li, Jing Nishizawa, Kazuhisa Wagner, Gerhard <120> Cloning and Characterization of a CD2 Binding Protein (CD2BP2) <130> 1062.1021-004

<140> US 09/873,106

<141> 2001-06-01

<150> US 60/111,007

<151> 1998-12-04

<150> US 60/115,647

<151> 1999-01-13

<150> PCT/US99/26993

<151> 1999-11-15

<160> 25

<170> FastSEQ for Windows Version 4.0

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<213> Homo sapiens

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gag gat gaa atc att gtc ccc aag aag aag ctg gtg gac cct gtg gct 216 Glu Asp Glu Ile Ile Val Pro Lys Lys Leu Val Asp Pro Val Ala

264 ggg tca ggg ggt cct ggg agc cgc ttt aaa ggc aaa cac tct ttg gat Gly Ser Gly Gly Pro Gly Ser Arg Phe Lys Gly Lys His Ser Leu Asp 35

age gat gag gag gat gat gat gat ggg ggg tee age aaa tat gae 312 Ser Asp Glu Glu Glu Asp Asp Asp Gly Gly Ser Ser Lys Tyr Asp 50

				gat Asp 70									360
				cgg Arg									408
				gat Asp									456
				agc Ser									504
				ggc Gly									552
				acc Thr 150									600
				ttg Leu									648
_	_	 _	_	gga Gly			 _	_					696
				cgc Arg									744
				aac Asn									792
				aag Lys 230									840
				ccc Pro									888
				acc Thr									936
				ctg Leu									984
	_	 _	_	gag Glu	_				_	_	_	_	1032

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cag acc tgg gtg agt gaa ggc tac ttc ccg gac ggt gtt tat tgc cgg
                                                               1080
Gln Thr Trp Val Ser Glu Gly Tyr Phe Pro Asp Gly Val Tyr Cys Arg
                   310
                                      315
aag ctg gac ccc cct ggt ggt cag ttc tac aac tcc aaa cgc att gac
Lys Leu Asp Pro Pro Gly Gly Gln Phe Tyr Asn Ser Lys Arg Ile Asp
ttt gac ctc tac acc tgagcctgct gggggcccag tttggttgggc ccttctttcc
                                                               1183
Phe Asp Leu Tyr Thr
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tggactttgt ggaggaggca ccaagtgtct caggcagcga ggaaattgga ggccattttt 1243
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Glu Asp Glu Ile Ile Val Pro Lys Lys Leu Val Asp Pro Val Ala
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                              25
Gly Ser Gly Gly Pro Gly Ser Arg Phe Lys Gly Lys His Ser Leu Asp
                          40
Ser Asp Glu Glu Glu Asp Asp Asp Gly Gly Ser Ser Lys Tyr Asp
                       55
Ile Leu Ala Ser Glu Asp Val Glu Gly Gln Glu Ala Ala Thr Leu Pro
                   70
                                      75
Ser Glu Gly Gly Arg Ile Thr Pro Phe Asn Leu Gln Glu Glu Met
               85
                                  90
Glu Glu His Phe Asp Ala Asp Gly Asn Tyr Phe Leu Asn Arg Asp
           100
                              105
                                                 110
Ala Gln Ile Arg Asp Ser Trp Leu Asp Asn Ile Asp Trp Val Lys Ile
                          120
                                             125
Arg Glu Arg Pro Pro Gly Gln Arg Gln Ala Ser Asp Ser Glu Glu Glu
   130
                       135
                                          140
Asp Ser Leu Gly Gln Thr Ser Met Ser Ala Gln Ala Leu Leu Glu Gly
                   150
                                      155
Leu Leu Glu Leu Leu Pro Arg Glu Thr Val Ala Gly Ala Leu Arg
               165
                                  170
Arg Leu Gly Ala Arg Gly Gly Lys Gly Arg Lys Gly Pro Gly Gln
           180
                              185
                                                 190
Pro Ser Ser Pro Gln Arg Leu Asp Arg Leu Ser Gly Leu Ala Asp Gln
                          200
Met Val Ala Arg Gly Asn Leu Gly Val Tyr Gln Glu Thr Arg Glu Arg
                      215
                                          220
Leu Ala Met Arg Leu Lys Gly Leu Gly Cys Gln Thr Leu Gly Pro His
                  230
                                      235
Asn Pro Thr Pro Pro Pro Ser Leu Asp Met Phe Ala Glu Glu Leu Ala
              245
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Glu Glu Glu Leu Glu Thr Pro Thr Pro Thr Gln Arg Gly Glu Ala Glu
Ser Arg Gly Asp Gly Leu Val Asp Val Met Trp Glu Tyr Lys Trp Glu
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280

275

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Asn Thr Gly Asp Ala Glu Leu Tyr Gly Pro Phe Thr Ser Ala Gln Met
                        295
                                            300
Gln Thr Trp Val Ser Glu Gly Tyr Phe Pro Asp Gly Val Tyr Cys Arg
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Lys Leu Asp Pro Pro Gly Gly Gln Phe Tyr Asn Ser Lys Arg Ile Asp
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Phe Asp Leu Tyr Thr
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Gly Asp Ala Glu Leu Tyr Gly Pro Phe Thr Ser Ala Gln Met Gln Thr
Trp Val Ser Glu Gly Tyr Phe Pro Asp Gly
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Gly Pro Asp Ser Glu Lys Tyr Gly Pro Tyr Met Ser Lys Asp Met Leu
Phe Trp Leu Gln Ala Gly Tyr Phe Asn Asp Gly
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Asp Trp Tyr Gln Lys Gly Tyr Phe Ser Asp Asn
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Asp Thr Gln Gly Gln Ile His Gly Pro Phe Thr Thr Gln Met Met Ser
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Gln Trp Tyr Ile Gly Gly Leu Glu Tyr Phe Ala Ser Thr
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Asp Ser Asn Gly Asn Ile Gln Gly Pro Phe Gly Thr Asn Asn Met Ser
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Gln Trp Tyr Gln Gly Gly Tyr Phe Thr Pro Thr
<210> 9
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<212> PRT
<213> Artificial Sequence
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<223> Motif in CD2 binding region of CD2BP2
<221> VARIANT
<222> 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14
<223> Xaa = Any Amino Acid
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                 5
                                                        15
Phe
<210> 10
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<223> CD2BP2 binding region
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Pro Pro Pro Gly His Arg
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<211> 70
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<212> PRT
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Pro Pro Pro Pro Pro Gly His Arg Ser Gln Ala Pro Ser His Arg Pro
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Pro Pro Pro Gly His Arg Val Gln His Gln Pro Gln Lys Arg Pro Pro
                                25
Ala Pro Ser Gly Thr Gln Val His Gln Gln Lys Gly Pro Pro Leu Pro
                            40
Arg Pro Arg Val Gln Pro Lys Pro Pro His Gly Ala Ala Glu Asn Ser
                       55
Leu Ser Pro Ser Ser Asn
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<212> DNA
<213> Artificial Sequence
<223> Kozak consensus sequence
<400> 12
ccgccacc
                                                                   8
<210> 13
<211> 24
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<213> Artificial Sequence
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<223> Flag Epitope
<400> 13
                                                                   24
gactacaagg acgacgatga caag
<210> 14
<211> 8
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<220>
<223> Flag Epitope
<400> 14
Asp Tyr Lys Asp Asp Asp Lys
<210> 15
<211> 31
<212> PRT
<213> Gallus gallus
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<223> Flag Epitope

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Trp Tyr Tyr Lys Asp Pro Gln Gly Glu Ile Gln Gly Pro Phe Ser Asn
1
               5
                                   10
Gln Glu Met Ala Glu Trp Phe Gln Ala Gly Tyr Phe Thr Met Ser
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<211> 38
<212> PRT
<213> Drosophila melanogaster
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<223> Flag Epitope
<400> 16
Glu Val Thr Trp Glu Phe Lys Trp Ser Gln Asp Glu Thr Asp Ile Gln
1
                5
                                    10
Gly Pro Phe Ser Thr Glu Lys Met Leu Lys Trp Ser Gln Glu Asn Thr
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Arg Tyr Phe Lys Asn Gly
        35
<210> 17
<211> 34
<212> PRT
<213> Leishmania major
<220>
<223> Flag Epitope
<400> 17
Val Trp Met Met Arg Trp Lys Ala Lys Pro Thr Val Gln His Gly Pro
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Phe Thr Asp Asp Ala Ile Gln Gln Trp Gly Arg Asp Gly Tyr Phe Gly
            20
                               25
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Lys Lys
<210> 18
<211> 36
<212> PRT
<213> Caenorhabditis elegans
<220>
<223> Flag Epitope
<400> 18
Val Ile Asp Thr Lys Trp His Tyr Leu Gly Pro Asp Ser Glu Lys Tyr
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Gly Pro Tyr Met Ser Lys Asp Met Leu Phe Trp Leu Gln Ala Gly Tyr
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                               25
Phe Asn Asp Gly
       35
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<210> 19

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<211> 35
<212> PRT
<213> Caenorhabditis elegans
<223> Flag Epitope
<400> 19
Val Glu Ser Ser Trp Arg Tyr Ile Asp Thr Gln Gly Gln Ile His Gly
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Pro Phe Thr Ile Gln Met Met Ser Gln Trp Tyr Ile Gly Gly Tyr Phe
Ala Ser Thr
       35
<210> 20
<211> 35
<212> PRT
<213> Saccharomyces cerevisiae
<223> Flag Epitope
<400> 20
Ile Glu Ser Gln Trp Lys Tyr Ile Asp Ser Asn Gly Asn Ile Gln Gly
Pro Phe Gly Thr Asn Asn Met Ser Gln Trp Tyr Gln Gly Gly Tyr Phe
           20
Thr Pro Thr
       35
<210> 21
<211> 31
<212> PRT
<213> Saccharomces pombe
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<223> Flag Epitope
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Trp Leu Tyr Lys Asp Pro Gln Asn Asn Val Gln Gly Pro Phe Thr Gly
Val Asp Met His Gln Trp Tyr Arg Ala Gly Tyr Phe Pro Leu Gly
            20
                                25
<210> 22
<211> 21
<212> PRT
<213> Homo sapiens
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<223> Flag Epitope
Pro Pro Pro Pro Gly His Arg Ser Gln Ala Pro Ser His Arg Pro Pro
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```
Pro Pro Gly His Arg
20
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<210> 23

<211> 62

<212> PRT

<213> Homo sapiens

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<223> Flag Epitope

<400> 23

Asp Val Met Trp Glu Tyr Lys Trp Glu Asn Thr Gly Asp Ala Glu Leu 1 5 10 15

Tyr Gly Pro Phe Thr Ser Ala Gln Met Gln Thr Trp Val Ser Glu Gly 20 25 30

Tyr Phe Pro Asp Gly Val Tyr Cys Arg Lys Leu Asp Pro Pro Gly Gly 35 40

Gln Phe Tyr Asn Ser Lys Arg Ile Asp Phe Asp Leu Tyr Thr 50 55

<210> 24

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<212> PRT

<213> Homo sapiens

<220>

<223> Flag Epitope

<400> 24

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<211> 31

<212> PRT

<213> Homo sapiens

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<400> 25